

IDAHO CONTENT STANDARDS  
GRADE 4  
MATHEMATICS

Standard 1: Number and Operation

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7	Objective 8	Objective 9
Goal 1.1: Understand and use numbers.	4.M.1.1.1 Read, write, compare, and order whole numbers to 100,000. (297.01.a)	4.M.1.1.2 Identify and apply place value in whole numbers. (297.01.b)	4.M.1.1.3 Count the value of a collection of bills and coins up to \$100.00. (297.01.c)	4.M.1.1.4 Read, write, compare, and order commonly used fractions with pictorial representations. (297.01.d)	4.M.1.1.5 Use decimal numbers with money. (297.01.e)	4.M.1.1.6 Select strategies appropriate for solving a problem. (298.01.a)	4.M.1.1.7 Use appropriate vocabulary. (297.01.f)		
Goal 1.2: Perform computations accurately.	4.M.1.2.1 Recall multiplication facts through 10 x 10. (297.02.e)	4.M.1.2.2 Add and subtract whole numbers. (297.02.a)	4.M.1.2.3 Multiply up to two-digit by two-digit whole numbers and divide whole numbers by one-digit divisors. (297.02.b)	4.M.1.2.4 Add and subtract fractions with like denominators that do not require simplification. (297.02.c)	4.M.1.2.5 Add and subtract decimals using money. (297.02.d)	4.M.1.2.6 Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three. (297.02.f)	4.M.1.2.7 Select and use appropriate operations to solve word problems and show or explain work. (298.01.b)	4.M.1.2.8 Use appropriate vocabulary. (297.02.g)	
Goal 1.3: Estimate and judge reasonableness of results.	4.M.1.3.1 Estimate to predict computation results. (297.03.a)	4.M.1.3.2 Use estimation to evaluate the reasonableness of an answer. (297.03.b)	4.M.1.3.3 Investigate the use of a four-function calculator to solve complex grade-level problems. (298.03.a)	4.M.1.3.4 Use appropriate vocabulary. (297.03.c)					

Standard 2: Concepts and Principles of Measurement

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7	Objective 8	Objective 9
Goal 2.1: Understand and use U.S. customary and metric measurements.	4.M.2.1.1 Select and use appropriate units and tools to make the formal measurements of length, temperature, and weight in both systems. (299.01.a)	4.M.2.1.2 Estimate length, time, weight, and temperature in real-world problems using standard units. (299.01.b)	4.M.2.1.3 Tell time to the nearest minute using digital and analog clocks. (299.01.e)	4.M.2.1.4 Solve real-world problems related to elapsed time. (299.01.f)	4.M.2.1.5 Convert units of length and time within the U. S. Customary system. (299.01.c)	4.M.2.1.6 State that there are 365 days in a year and 52 weeks in a year.	4.M.2.1.7 Recall length and volume (capacity) equivalences involving inches, feet, yards, cups, pints, quarts, and gallons in the U.S. Customary system.	4.M.2.1.8 Use appropriate vocabulary. (299.01.g)	
Goal 2.2: Apply the concepts of rates, ratios, and proportions.	No objectives at this grade level.								
Goal 2.3: Apply dimensional analysis.	No objectives at this grade level.								

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Standard 3: Concepts and Language of Algebra and Functions

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7	Objective 8	Objective 9
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.	4.M.3.1.1 Write a division problem using a bracket (÷) and/or the division symbol (÷). (300.01.a)	4.M.3.1.2 Write a number sentence using simple geometric shapes or letters of the alphabet as symbols to represent an unknown number. (300.01.b)	4.M.3.1.3 Show the relationship between multiplication and division using fact families.	4.M.3.1.4 Read and use symbols of “<,” “>,” and “=” to express relationships with numbers through 1,000,000. (300.01.c)					
Goal 3.2: Evaluate algebraic expressions.	4.M.3.2.1 Use the identity and zero properties of multiplication.								
Goal 3.3: Solve algebraic equations and inequalities.	4.M.3.3.1 Solve missing factor equations. (300.03.a)								
Goal 3.4: Understand the concept of functions.	4.M.3.4.1 Identify the rule (function) for a pattern using whole numbers and addition and then extend the pattern. (303.01.a)	4.M.3.4.2 Use appropriate vocabulary. (303.01.c)							
Goal 3.5: Represent equations, inequalities and functions in a variety of formats.	No objectives at this grade level.								
Goal 3.6: Apply functions to a variety of problems.	No objectives at this grade level.								

Standard 4: Concepts and Principles of Geometry

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7	Objective 8	Objective 9
Goal 4.1: Apply concepts of size, shape, and spatial relationships.	4.M.4.1.1 Identify, compare, and analyze attributes of two- and three- dimensional shapes, including parallel, intersecting, and perpendicular lines, and develop vocabulary to describe the attributes. (301.01.a)	4.M.4.1.2 Predict the results of sliding and flipping two- dimensional shapes. (301.01.d)	4.M.4.1.3 Identify multiple lines of symmetry in two- dimensional shapes.	4.M.4.1.4 Discuss perimeters of polygons, and areas and perimeters of rectangles and squares, using concrete objects. (301.01.c)	4.M.4.1.5 Use appropriate vocabulary. (301.01.e)				
Goal 4.2: Apply the geometry of right triangles.	No objectives at this grade level.								
Goal 4.3: Apply graphing in two dimensions.	4.M.4.3.1 Use ordered pairs to identify the position of a point in the first quadrant on a coordinate grid.								

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**Standard 5: Data Analysis, Probability, and Statistics**

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7	Objective 8	Objective 9
<b>Goal 5.1: Understand data analysis.</b>	4.M.5.1.1 Read and interpret simple tables, charts, bar graphs, and line graphs. (302.01.a)	4.M.5.1.2 Use appropriate vocabulary. (302.01.c)							
<b>Goal 5.2: Collect, organize, and display data.</b>	4.M.5.2.1 Collect, organize, and display data in tables and charts to answer a question. (302.02.a)	4.M.5.2.2 Display data in a bar graph using appropriate notation such as a title, axes labels, and reasonable scales. (302.02.a)							
<b>Goal 5.3: Apply simple statistical measurements.</b>	4.M.5.3.1 Find the mode of a simple set of whole number data.								
<b>Goal 5.4: Understand basic concepts of probability.</b>	4.M.5.4.1 Predict the results of simple probability experiments using coins or spinners (e.g., 3 out of 6 choices). (302.04.a)								
<b>Goal 5.5: Make predictions or decisions based on data.</b>	4.M.5.5.1 Make predictions based on data. (298.01.c)								